## Montana Board of Oil and Gas Conservation Environmental Assessment

Operator: Oasis Petroleum North America LLC
Well Name/Number: Dash Federal 2759 11-13H

**Location:** NW NW Section 13 T27N R59E County: Roosevelt, MT; Field (or Wildcat) Wildcat **Air Quality** (possible concerns) Long drilling time: No, 30-40 days drilling time. Unusually deep drilling (high horsepower rig): Triple derrick drilling rig to drill a single lateral horizontal Bakken Formation test, 20,075'MD/10,560'TVD. Possible H2S gas production: Yes, slight H2S possible, Mississippian Formations. In/near Class I air quality area: No Class I air quality area nearby. Air quality permit for flaring/venting (if productive): Yes, DEQ air quality permit required under 75-2-211. Mitigation: \_X Air quality permit (AQB review) X Gas plants/pipelines available for sour gas \_\_ Special equipment/procedures requirements \_\_ Other: Comments: If there are existing pipeline for natural gas in the area then gas must be tied into system or if no gathering system nearby associated gas can be flared under Board Rule 36.22.1220. **Water Quality** (possible concerns) Salt/oil based mud: Yes to oil based invert drilling fluids for intermediate casing hole. Horizontal hole will be drilled with saltwater. Surface casing hole will be drilled with freshwater and freshwater mud system. High water table: No high water table anticipated in the area of review. Surface drainage leads to live water: No, closest drainages are unnamed ephemeral tributary drainages to Horse Tied Creek, about ¼ of a mile to the east from this location. A large stock pond is situated, about 1.125 miles to the northwest from this location. Water well contamination: No, closest water wells are over 1mile away in any direction from this location. This proposed oil well will be drilled with freshwater and freshwater mud to 2,004' and steel surface casing will be run and cemented to surface to protect groundwater. Porous/permeable soils: No, sandy clay soils. Class I stream drainage: No, Class I stream drainages. Mitigation: X Lined reserve pit X Adequate surface casing \_\_ Berms/dykes, re-routed drainage \_\_ Closed mud system \_\_ Off-site disposal of solids/liquids (in approved facility) Comments: 2,004' surface casing will be drilled with freshwater, steel casing will be run to 2,004' and cemented back to surface, to protect freshwater zones in adjacent water wells. Also, covering Fox

Soils/Vegetation/Land Use

Hills aquifer. Adequate surface casing and operational BOP equipment to prevent problems.

(possible concerns)
Steam crossings: None anticipated.
High erosion potential: Yes, location will require a moderate cut of up to 22.5' and a small fill of up to
8.5°, required.
Loss of soil productivity: No, location to be restored after drilling, if nonproductive. If productive unused
portion of this drillsite will be reclaimed.
Unusually large wellsite: Yes, a large well site 320'X430'.
Damage to improvements: Slight surface use appears to be CRP or grassland.
Conflict with existing land use/values: Slight
Mitigation
Avoid improvements (topographic tolerance)
Exception location requested
X Stockpile topsoil
Stream Crossing Permit (other agency review)
X Reclaim unused part of wellsite if productive
Special construction methods to enhance reclamation
X Other Requires DEQ General Permit for Storm Water Discharge Associated with
Construction Activity, under ARM 17.30.1102(28).
Comments: Access will be over existing county road and existing well access road. New access road
will be built into this location, about 521' into this location from the existing well access road. Oil based
invert drilling fluids will be recycled. Completion fluids will hauled to a commercial Class II disposal.
Cuttings and solids will be buried/solidified on site in the lined reserve pit. The lined pit will be allowed to
dry and the pit backfilled. No concerns.
dry and the pit backfined. To concerns.
Health Hazards/Noise
(possible concerns)
Proximity to public facilities/residences: <u>Nearest residence is about 1.625 miles to the northwest from this</u>
location. The Town of Bainville, Montana is about 8.5 miles to the northwest from this location.
Possibility of H2S: Yes, slight from Mississippian Formations.
Size of rig/length of drilling time: Triple drilling rig 30 to 40 days drilling time.
Mitigation:
_X Proper BOP equipment
Topographic sound barriers
H2S contingency and/or evacuation plan
Special equipment/procedures requirements
Other:
Comments: Adequate surface casing cemented to surface with working BOP stack should
mitigate any problems.
Wildlife/recreation
(possible concerns)
Proximity to sensitive wildlife areas (DFWP identified): None identified.
Proximity to recreation sites: None identified.
Creation of new access to wildlife habitat: No
Conflict with game range/refuge management: No
Threatened or endangered Species: Species identified as threatened or endangered are the Pallid
Sturgeon, Piping Plover, Interior Lease Tern and Whooping Crane. Candidate species is the Sprague's
Pipit. NH tracker website indicates, zero (0) species of concern. NH Tracker website list one (1) potential
species of concern: Hayden's Shrew.
$M(x) = x^{*}$
Mitigation:
Mitigation:  Avoidance (topographic tolerance/exception)  Other agency review (DFWP, federal agencies, DSL)

Screening/fencing of pits, drillsite
Other:
Comments: Private surface lands. There may be species of concern that maybe impacted by this
wellsite. We ask the operator to consult with the surface owner as to what he would like done, if a species
of concern is discovered at this location. The Board of Oil & Gas has no jurisdiction over private surface lands.
<u>iands.</u>
Historical/Cultural/Paleontological
(possible concerns)
Proximity to known sites: None identified.
Mitigation
avoidance (topographic tolerance, location exception)
other agency review (SHPO, DSL, federal agencies)
Other:
Comments: Private surface lands. There may be possible historical/cultural/paleontological sites
that maybe impacted by this wellsite. We ask the operator to consult with the surface owner as to his
desires to preserve these sites or not, if they are found during construction of the wellsite. The Board of
Oil & Gas has no jurisdiction over private surface lands.
Social/Economic
(possible concerns)
Substantial effect on tax base
Create demand for new governmental services
Population increase or relocation
Comments: Wildcat well. No concerns
Remarks or Special Concerns for this site
Remarks of Special Concerns for this site
An exploratory single lateral horizontal Bakken Formation test to be drilled to 20,075'MD/10,560'TVD.
Summary: Evaluation of Impacts and Cumulative effects
No long term impacts expected, some short term impacts will occur, but can be mitigated.
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I conclude that the approval of the subject Notice of Intent to Drill (does/ <u>does not</u> ) constitute a major
action of state government significantly affecting the quality of the human environment, and (does/does
<b>not</b> ) require the preparation of an environmental impact statement.
Prepared by (BOGC): /s/Steven Sasaki
Prepared by (BOGC): /s/Steven Sasaki (title:) Chief Field Inspector Date: March 30, 2012
Prepared by (BOGC): /s/Steven Sasaki (title:) Chief Field Inspector
Prepared by (BOGC): /s/Steven Sasaki (title:) Chief Field Inspector  Date: March 30, 2012  Other Persons Contacted:
Prepared by (BOGC): /s/Steven Sasaki (title:) Chief Field Inspector Date: March 30, 2012

Roosevelt County water wells
(subject discussed)
March 30, 2012
(date)
US Fish and Wildlife, Region 6 website
(Name and Agency)
ENDANGERED, THREATENED, PROPOSED AND CANDIDATE SPECIES MONTANA
COUNTIES, Roosevelt County, Montana
(subject discussed)
March 30, 2012
Montana Natural Haritaga Program Wahaita
Montana Natural Heritage Program Website  (Name and Agency)
(Name and Agency)
Heritage State Rank= S1, S2, S3, Location T27N R59E
(subject discussed)
March 30, 2012
(date)
If location was inspected before permit approval:
Inspection date:
Inspector:
Others present during inspection: